

Choose the correct answer:

- (1) The triangle whose measures of its angles are 50° , 90° and 40° is
- a an acute-angled triangle c an obtuse-angled triangle
b a right-angled triangle d an isosceles triangle

- (2) $4\frac{1}{8} \times 2\frac{2}{3} = \dots\dots\dots$
- a 1 b 10 c 11 d 111

- (3) If $\{7, 10\} \subset \{10, x+4\}$, then $x = \dots\dots\dots$
- a 3 b 4 c 5 d 6

- (4) $3.75 \times 1000 = \dots\dots\dots$
- a 0.375 b 0.0375 c 3750 d 37.5

- (5) $\frac{1}{2} \dots\dots \frac{1}{3}$
- a $>$ b $<$ c \geq d $=$

- (6)  The shaded part represents

- a $X \cap Y$ b $X \cup Y$ c $X - Y$ d $Y - X$

- (7)  The shaded part represents

- a $X \cap Y$ b $X \cup Y$ c $X - Y$ d $Y - X$

- (8)  The shaded part represents

- a $X \cap Y$ b $X \cup Y$ c $X - Y$ d $Y - X$

(9) $55.241 \times 100 \dots\dots 552.41 \times 10$

a $>$

b $<$

c \geq

d $=$

(10) $\frac{2}{3} \times \dots\dots = 1$

a 1

b 2

c 3

d $\frac{3}{2}$

(11) 43 days \cong (to the nearest week)

a 4

b 6

c 5

d 7

(12) Any chord [assign through the centre of a circle is called

a diameter

b radius

c side

d centre

(13) $\{52\} \dots\dots \{5,2\}$

a \subset

b $\not\subset$

c \in

d \notin

(14) $12.3 \times \dots\dots = 1230$

a 10

b 100

c 1000

d 10000

(15) If $Y = \{2,4,6\} \cap \{1,2,3\}$, then 6 Y

a \subset

b $\not\subset$

c \in

d \notin

(16) $\{2,3,6,12\} \cap$ the set of factors of the number 6 =

a $\{2,3,6,12\}$

b $\{3,6\}$

c $\{4,6\}$

d $\{2,3,6\}$

(17) $\frac{5}{8} \dots\dots 0.5734$

a $>$

b $<$

c \geq

d $=$

(18) 3.36 km = m

a 3.36

b 33.6

c 336

d 3360

(19) $9\frac{3}{25} \cong \dots\dots\dots$ (to the nearest tenth)

a 0.9

b 9.2

c 9.1

d 9

(20) $\frac{5}{6} \div 1\frac{1}{6} = \dots\dots\dots$

a $\frac{5}{7}$

b $\frac{2}{6}$

c $\frac{3}{7}$

d $\frac{7}{6}$

(21) $0.312 \times 100 \dots\dots\dots 312 \div 100$

a $>$

b $<$

c \geq

d $=$

(22) The smallest number from the following is

a 0.111

b 0.12

c 0.123

d 1.023

(23) $10 \times 4.72 \dots\dots\dots 100 \times 0.472$

a $>$

b $<$

c \geq

d $=$

(24) $\frac{3}{5} \times 1.6 > \dots\dots\dots \times 1.6$

a 0.6

b 1.6

c 0.3

d $\frac{5}{3}$

(25) If $Y = \{2, 3, 5\} \cap \{1, 3, 5\}$, then $\{1, 2\} \dots\dots\dots Y$

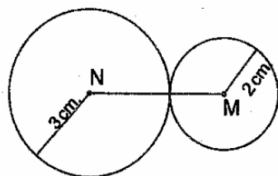
a \subset

b $\not\subset$

c \in

d \notin

(26)



In the opposite figure:

$MN = \dots\dots\dots$ cm

a 2

b 3

c 6

d 5

(27) The length of a diameter of any circle the length of any chord in it doesn't passing through the center

a $>$

b $<$

c \geq

d $=$

(28) $\{0\}$ $\{1, 2, 5, 8\}$

a \subset **b** $\not\subset$ **c** \in **d** \notin

(29) The number $736.592 \cong 736.59$ to the nearest

a ten**b** tenth**c** hundredth**d** 0.001

(30) If $\frac{2}{3} = \frac{16}{C}$, then $C =$

a 2**b** 3**c** 12**d** 24

(31) $\frac{1}{3} \times \frac{3}{4} =$

a $\frac{1}{3}$ **b** $\frac{1}{2}$ **c** $\frac{1}{4}$ **d** $\frac{4}{9}$

(32) If $3 \in \{x, 5\}$, then $x =$

a 5**b** 3**c** 8**d** 2

(33) $312 \div 10 =$

a 3.12**b** 0.312**c** 31.2**d** 312

(34) 14.4×10 144

a $>$ **b** $<$ **c** \geq **d** $=$

(35) In any triangle, there are heights.

a 0**b** 1**c** 2**d** 3

(36) $\{5\}$ $\{5, 8\}$

a \subset **b** $\not\subset$ **c** \in **d** \notin

(37) When tossing a coin once, the probability of getting a tail = ...

a 0**b** 1**c** $\frac{1}{2}$ **d** $\frac{1}{4}$

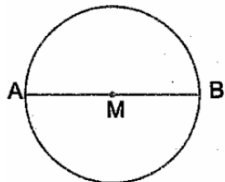
(38) $\frac{1}{2} = \dots\dots\dots$

- a** 5 **b** 0.5 **c** 0.05 **d** 50

(39) The longest chord in a circle is called a

- a** chord **b** radius **c** center **d** diameter

(40)



AB is called a

- a** chord **b** radius **c** center **d** diameter

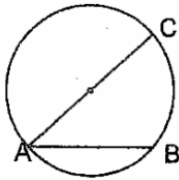
(41) The number of altitude of any triangle is

- a** 0 **b** 1 **c** 2 **d** 3

(42) $10 \times 4.72 \dots\dots\dots 100 \times 0.472$

- a** > **b** < **c** ≥ **d** =

(43)

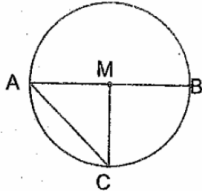
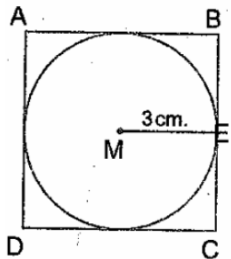
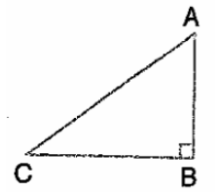
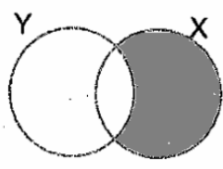


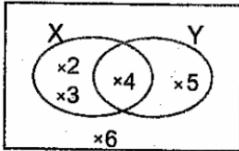
AB is called a

- a** chord **b** radius **c** center **d** diameter

Complete:

(1)	$\frac{4}{12} \div \frac{6}{12} = \dots\dots\dots$	" $\frac{2}{3}$ "
(2)	The probability of the sure event =	"1"
(3)	If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$	"5"
(4)	2.4 dm = cm.	"24"

(5)	In the opposite figure: (1) $MA = \dots\dots\dots = \dots\dots\dots$ (2) The longest chord is $\dots\dots\dots$		"MB" "MC" "AB"
(6)	$65.384 - \dots\dots\dots = 65$		"0.384"
(7)	$\frac{3}{25} \div \dots\dots\dots = \frac{3}{25}$		"1"
(8)	If $X \subset Y$, then $X \cap Y = \dots\dots\dots$		"X"
(9)	If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail = $\dots\dots\dots$		" $\frac{1}{5}$ "
(10)	In the opposite figure: If $ME = 3$ cm, then the perimeter of the square = $\dots\dots$ cm		"24"
(11)	In the opposite figure: The corresponding height of the base \overline{BC} is $\dots\dots\dots$		"AB"
(12)	The shaded part represent $\dots\dots\dots$		"X-Y"
(13)	A circle of radius length 1 cm, then its diameter length = $\dots\dots\dots$ cm		"2"
(14)	$4.6798 \cong \dots\dots\dots$ (to the nearest hundredth)		"4.68"
(15)	$2\frac{1}{4} \times \dots\dots\dots = 1$		" $\frac{4}{9}$ "
(16)	$3978 \div \dots\dots\dots = 3.978$		"1000"
(17)	$4.85 \cong \dots\dots\dots$ (to the nearest tenth)		"4.9"
(18)	When tossing a die once, the probability of getting the number 3 is $\dots\dots\dots$		" $\frac{1}{6}$ "
(19)	$48.4 \div 4 = \dots\dots\dots$		"12.1"

(20)	A circle of diameter length 4 cm, then its radius length = cm	"2"								
(21)	If $X = \{1, 2, 5, 7\}$, $Y = \{1, 5, 3\}$, then $X \cap Y = \dots$	"{1, 5}"								
(22)	<div>From the opposite figure, find: (1) $X \cap Y = \dots$ (2) $X \cup Y = \dots$ (3) $X - Y = \dots$ (4) $Y - X = \dots$ (5) $X' = \dots$</div> <div></div>	<div>"{4}" "{2, 3, 4, 5}" "{2, 3}" "{5}" "{5, 6}"</div>								
(23)	When tossing a die once, the probability of getting an even number is	" $\frac{1}{2}$ "								
(24)	When tossing a die once, the probability of getting an odd number is	" $\frac{1}{2}$ "								
(25)	When tossing a die once, the probability of getting a prime number is	" $\frac{1}{2}$ "								
(26)	<div>From the table,<table><tr><td>Game</td><td>Football</td><td>Basketball</td><td>Handball</td></tr><tr><td>No. of pupils</td><td>50</td><td>40</td><td>10</td></tr></table>The probability that a pupil plays basketball =</div>	Game	Football	Basketball	Handball	No. of pupils	50	40	10	" $\frac{2}{5}$ "
Game	Football	Basketball	Handball							
No. of pupils	50	40	10							

Essay Problems:

- (1) **Arrange** in a descending order:
- $5\frac{1}{2}$, $6\frac{1}{4}$, $5\frac{3}{4}$ and $5\frac{2}{5}$
- , , , and
- (2) **Find** the width of a rectangle whose area is 10.25 m^2 and its length is 4.1 m, and then **find** its perimeter.
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- (3) If $U = \{x : x \text{ is an odd number} < 15\}$, $X = \{1, 3\}$ and $Y = \{1, 5, 9, 13\}$, draw a Venn diagram that represents the sets, then find $X \cap Y$
- (4) A box contains identical balls where 5 balls are white, 9 red and 6 black. If one ball chosen randomly, what is the probability that the chosen ball is white?
- (5) A rectangle of length 4.1 cm and width 3.5 cm. Calculate its area.
- (6) Find the number if multiplied by 0.25, the product is 3.25
.....
- (7) Draw a $\triangle ABC$ in which $BC = 6$ cm and $AB = AC = 5$ cm, draw $\overline{AD} \perp \overline{BC}$. Find the length of AD.